CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Name of Work : Improvements to footpaths in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Name of Client	:	**Executive Engineer,** Byatarayanapura Division, BBMP, Bangalore.
Contractor/Agency	:	**Sri. U Ramesh,** Contractor, Bangalore.
Bill Amount	:	Rs.24.21Lakhs
Date of Inspection	:	11.09.2023
Status of Bill	:	1st & Final Bill
In the Presence of	:	**Assistant Engineer (Ward No.10),** BBMP, Bangalore. (b) **Mr. Yashas ,** Engineer M/s. Civil Aim Consultants and Engineers, Bangalore.

PMC Report

Item No.	Description of the Item	Unit	Qnty	Comments / observations
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of	Cum	225.00	Work done up to the billed quantity and Quality is satisfactory
	Above 125%	Cum	131.32	Work done up to the billed quantity and Quality is satisfactory
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and	Cum	30.00	Work done up to the billed quantity and Quality is satisfactory
	Above 125%	Cum	20.43	Work done up to the billed quantity and Quality is satisfactory
4	Removing And Resetting Of Kerb Stone[Approved Arrival Rate]	M	142.00	Work done up to the billed quantity and Quality is satisfactory

For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
Sub Division

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from	CUm	51.98	Work done up to the billed quantity and Quality is satisfactory
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.	Tn	3.12	Work done up to the billed quantity and Quality is satisfactory
7	Providing And Fixing Precast Covering Slab Made Out Of CC 1;2;4 With 10cm Thick And Finishimg Cutting Including Form Work Curing Including	Sqm	222.84	Work done up to the billed quantity and Quality is satisfactory
9	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for	Sqm	298.04	Work done up to the billed quantity and Quality is satisfactory
10	Supplying and fixing M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and	Mtr	309.00	Work done up to the billed quantity and Quality is satisfactory
11	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered	Sqm	157.85	Work done up to the billed quantity and Quality is satisfactory
12	Loading and Unloading of Stone Boulder/Stone aggregates/	Cum	202.50	Work done up to the billed quantity and Quality is satisfactory
	Above 125%	Cum	153.82	Work done up to the billed quantity and Quality is satisfactory
13	Cost of Haulage Excluding Loading and UnloadingTaking output 18 t load and lead 10 km = 180 t.km t	t.Km	259.20	Work done up to the billed quantity and Quality is satisfactory

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Assistant Executive Engineer

Authorised Signatory

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	Above 125%	t.Km	196.89	Work done up to the billed quantity and Quality is satisfactory
E1	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed	Cum	36.26	Work done up to the billed quantity and Quality is satisfactory

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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QC ABSTRACT

Nameof Work: Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	1:3:6	36.26 Cum	1	1	Pass
2	TMT Steel	3.12 Tonne	1	1	Pass
3	M10	50.43 Cum	5	5	Pass
4	M20	51.98 Cum	5	5	Pass
5	Slab (100mm)	222.84 Sqm	1	1	Pass
6	Paver Blocks (60mm)	298.04 Sqm	1	1	Pass
7	Kerb Stone	309 Mtrs	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 14.06.2023

TEST REPORT

CLIENT	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. U Ramesh, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	May - 2023
DATE OF TESTING	:	12.06.2023 to 14.06.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency : **Sri. U Ramesh,** Contractor, Bangalore.
Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Date of Testing : 14.06.2023
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	135	13.50	21.70	78.3	75-100
1.18	182	18.20	39.90	60.1	55-90
600 Micron	165	16.50	56.40	43.6	35-59
300 Micron	220	22.00	78.40	21.6	8-30
150 Micron	145	14.50	92.90	7.1	0-10

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date : 14.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Date of Testing : 14.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Date : 14.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Date of Testing : 14.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	165	1.10	1.10	98.90	95-100
20	8236	54.91	56.01	43.99	30-70
10	3256	21.71	77.71	22.29	10-35
4.75	2810	18.73	96.45	3.55	0-5

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Date of Testing : 14.06.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	33	3.30	5.10	94.9	70-100
600 Micron	86	8.60	13.70	86.3	40-100
300 Micron	250	25.00	38.70	61.3	5-70
150 Micron	486	48.60	87.30	12.7	0-15

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Date of Testing : 14.06.2023

Material : Sand - Plastering Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	13	1.30	1.30	98.7	95-100
2.36	25	2.50	3.80	96.2	95-100
1.18	38	3.80	7.60	92.4	90-100
600 Micron	72	7.20	14.80	85.2	80-100
300 Micron	265	26.50	41.30	58.7	20-65
150 Micron	515	51.50	92.80	7.2	0-15

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date : 19.06.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of Work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Steel Dia/Length : 10mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 19.06.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.617	549	632	1.15	15

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 10.07.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. U Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	10.07.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.372	2310.46	1.64	0.961	24.50	12.48	13.48	12.95	16.19
2	50.00	84.00	0.385	2334.27	1.68	0.965	25.60	13.04	14.08	13.59	16.99
3	50.00	86.00	0.399	2362.90	1.72	0.970	26.80	13.65	14.74	14.30	17.87

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 12.07.2023

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri. U Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	12.07.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	72.00	0.329	2327.20	1.44	0.940	25.60	13.04	14.08	13.23	16.54
2	50.00	74.00	0.341	2346.89	1.48	0.944	27.20	13.85	14.96	14.12	17.65
3	50.00	76.00	0.356	2385.65	1.52	0.948	27.80	14.16	15.29	14.50	18.12

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 26.07.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri. U Ramesh,** Contractor, Bangalore.
Name of the work	:	Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.12	60.13
2	02	60.14	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	692.8	24,200	28.62	286.2	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	695.4	24,200	28.73	287.3	

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BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 30.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2023	30.06.2023	8.138	332.6	14.78
2	23.06.2023	30.06.2023	8.154	329.4	14.64
3	23.06.2023	30.06.2023	8.112	345.2	15.34

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 21.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2023	21.07.2023	8.184	500.9	22.26
2	23.06.2023	21.07.2023	8.156	484.6	21.54
3	23.06.2023	21.07.2023	8.138	495.3	22.01

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 03.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.06.2023	03.07.2023	8.168	335.2	14.90
2	26.06.2023	03.07.2023	8.145	346.5	15.40
3	26.06.2023	03.07.2023	8.152	328.9	14.62

Note:

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Assistant Executive Engineer
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BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 24.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.06.2023	24.07.2023	8.169	505.2	22.45
2	26.06.2023	24.07.2023	8.174	515.6	22.92
3	26.06.2023	24.07.2023	8.152	489.6	21.76

Note:

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 03.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.06.2023	03.07.2023	8.166	335.2	14.90
2	26.06.2023	03.07.2023	8.184	345.2	15.34
3	26.06.2023	03.07.2023	8.152	326.3	14.50

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 24.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.06.2023	24.07.2023	8.168	505.2	22.45
2	26.06.2023	24.07.2023	8.148	513.5	22.82
3	26.06.2023	24.07.2023	8.152	489.6	21.76

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 04.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2023	04.07.2023	8.165	332.3	14.77
2	27.06.2023	04.07.2023	8.138	345.2	15.34
3	27.06.2023	04.07.2023	8.145	326.9	14.53

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 25.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2023	25.07.2023	8.168	500.2	22.23
2	27.06.2023	25.07.2023	8.145	484.5	21.53
3	27.06.2023	25.07.2023	8.152	496.3	22.06

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 07.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2023	07.06.2023	8.177	326.3	14.50
2	30.06.2023	07.06.2023	8.146	335.8	14.92
3	30.06.2023	07.06.2023	8.138	342.5	15.22

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 28.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2023	28.07.2023	8.185	505.2	22.45
2	30.06.2023	28.07.2023	8.169	512.2	22.76
3	30.06.2023	28.07.2023	8.145	495.6	22.03

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 26.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2023	26.07.2023	8.136	162.5	7.22
2	19.07.2023	26.07.2023	8.145	185.2	8.23
3	19.07.2023	26.07.2023	8.128	196.3	8.72

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 16.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2023	16.08.2023	8.139	265.2	11.79
2	19.07.2023	16.08.2023	8.155	248.9	11.06
3	19.07.2023	16.08.2023	8.148	256.3	11.39

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Kodigehalli Sub Division
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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 26.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2023	26.07.2023	8.136	165.2	7.34
2	19.07.2023	26.07.2023	8.132	182.4	8.11
3	19.07.2023	26.07.2023	8.146	155.9	6.93

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 16.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2023	16.08.2023	8.150	285.2	12.68
2	19.07.2023	16.08.2023	8.138	272.3	12.10
3	19.07.2023	16.08.2023	8.115	280.6	12.47

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 31.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2023	31.07.2023	8.136	189.6	8.43
2	24.07.2023	31.07.2023	8.154	175.8	7.81
3	24.07.2023	31.07.2023	8.148	168.3	7.48

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 21.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2023	21.08.2023	8.133	255.8	11.37
2	24.07.2023	21.08.2023	8.165	276.9	12.31
3	24.07.2023	21.08.2023	8.148	268.9	11.95

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 04.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2023	04.08.2023	8.165	158.2	7.03
2	28.07.2023	04.08.2023	8.148	195.3	8.68
3	28.07.2023	04.08.2023	8.152	172.5	7.67

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 25.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2023	25.08.2023	8.166	275.2	12.23
2	28.07.2023	25.08.2023	8.140	268.9	11.95
3	28.07.2023	25.08.2023	8.158	285.2	12.68

Note:

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Job No.: CACE/BBMP/UR/W.No.10/2023-24

Date: 04.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2023	04.08.2023	8.136	178.5	7.93
2	28.07.2023	04.08.2023	8.154	169.3	7.52
3	28.07.2023	04.08.2023	8.146	184.2	8.19

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Job No.: CACE/BBMP/UR/W.No.10/2023-24 Date: 25.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. U Ramesh,** Contractor, Bangalore.

Name of the work : Improvements to footpath in cross roads of Kempapura in Ward No.10 Kempapura, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.07.2023	25.08.2023	8.135	274.5	12.20
2	28.07.2023	25.08.2023	8.168	268.9	11.95
3	28.07.2023	25.08.2023	8.155	252.6	11.23

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